

ABSTRACT

The invention satisfies this need. The invention is a pipe fitting having a body with an internal bore of a specific nominal diameter. The internal bore is threaded with internal bore threads. The internal bore threads have sides, crests and roots. The sides are disposed at a specific angle ϕ . The roots are recessed such that, when an externally threaded pipe having (i) the same nominal diameter as the bore of the pipe fitting body, and (ii) external threads with sides disposed at the same specific angle ϕ and with sharp crests is disposed within the bore of the pipe fitting body, the sharp crests of the external threads do not impinge upon the roots of the internal threads.